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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application Of: Willem F. Wolkers, et al	
Serial No: 09/828,627	Examiner: Lankford Jr., Leon B.
Filed: April 5, 2001	
Title: THERAPEUTIC PLATELETS AND METHODS	Art Unit: 1651
	Atty. Docket No.: 6829-60267 (23.110)

Commissioner for Patents
Washington, D.C. 20231

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. §1.56 AND §§1.97-1.98

Sir:

The citations listed on the enclosed PTO-1449 Form are submitted under 37 C.F.R. §§1.97 and 1.98, and in compliance with the duty of disclosure as defined in 37 C.F.R. §1.56. The Examiner is requested to make these citations officially of record in the application.

This Second Supplemental Information Disclosure Statement is being submitted after receipt of the first Office Action, therefore a fee applies.

This Second Supplemental Information Disclosure Statement Under 37 C.F.R. §1.56 is not to be construed as a representation that any of the listed citations establishes, by itself or in combination with other information, a prima facie case of unpatentability of any claim in the above-identified application. Additionally, this Second Supplemental Information Disclosure Statement is not to be construed as a representation that a further search of the art has been made by

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Applicants, or that additional information relevant to the examination of this application does not exist unbeknownst to Applicants.

Respectfully submitted,


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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document Number	Publication Date (mm-dd-yyyy)	Name of Applicant	Pages, Columns, Lines Where Relevant Passages or Figures appear
		3,932,943	January 20, 1976	Briggs, et al.	
		4,145,185	March 20, 1979	Brinkhous, et al.	
		4,251,995	February 24, 1981	Pert et al.	
		4,287,087	September 1, 1981	Brinkhous, et al.	
		4,302,355	November 24, 1981	Turner, Jr., et al.	
		4,585,735	April 29, 1986	Meryman, et al.	
		4,695,460	September 22, 1987	Holme	
		4,717,654	January 5, 1988	Savoca et al.	
		4,874,690	October 17, 1989	Goodrich, Jr., et al.	
		4,880,788	November 14, 1989	Moake et al.	
		4,891,319	January 2, 1990	Roser	
		4,994,367	February 19, 1991	Bode, et al.	
		5,043,261	August 27, 1991	Goodrich, et al.	
		5,026,566	June 25, 1991	Roser	
		5,030,560	July 9, 1991	Sinor et al.	
		5,043,261	August 27, 1991	Goodrich, et al.	
		5,045,446	September 3, 1991	Goodrich et al.	
		5,059,518	October 22, 1991	Kortright, et al.	
		5,149,653	September 22, 1992	Roser	
		5,151,360	September 19, 1992	Handa, et al.	
		5,153,004	October 6, 1992	Goodrich, Jr., et al.	
		5,165,938	November 24, 1992	Knighton	
		5,171,661	December 15, 1992	Goodrich, Jr., et al.	
		5,178,884	January 12, 1993	Goodrich, et al.	
		5,213,814	May 25, 1993	Goodrich, Jr., et al.	
		5,236,716	August 17, 1993	Carmen et al.	
		5,242,792	September 7, 1993	Rudolph, et al.	
		5,248,506	September 28, 1993	Holme, et al.	
		5,250,303	October, 5, 1993	Meryman, et al.	
		5,328,840	July 12, 1994	Coller	
		5,332,578	July 26, 1994	Chao	
		5,344,752	September 6, 1994	Murphy	
		5,358,844	October 25, 1994	Stossel, et al.	
		5,376,524	December 27, 1994	Murphy, et al.	
		5,378,601	January 3, 1995	Gepner-Puszkin	
		5,428,008	June 27, 1995	Chao, et al.	
		5,510,263	April 23, 1996	Quaranta, et al.	
		5,827,741	October 27, 1998	Beattie, et al.	
		5,902,608	May 11, 1999	Read, et al.	
		5,958,670	September 28, 1999	Goodrich Jr., et al.	
Examiner	Date Considered				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s).

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FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document	Publication Date (mm-dd-yyyy)	Name of Applicant	Pages, Columns, Lines Where Relevant Passages or Figures appear
		WO 86/03938	17 July 1986	Crowe et al.	
		WO 87/05300	11 September 1987	James et al.	
		WO 90/04329	3 May 1990	Raynor et al.	
		WO 93/00806	21 January 1993	Aspinall et al.	
		WO 93/14191	22 July 1993	Goodrich et al.	
		EP0356257A2	28 February 1990	Goodrich et al.	
		EP0356257B1	29 March 1995	Goodrich et al.	
		EP0668013A2	23 August 1995	Tetsuo et al.	

OTHER ART

Examiner's Initials	Cite No.	Include Author, Title, Date, Pertinent Pages, Etc.
		ALI, A.M. et al., "Platelet Concentrates Stored for 5 Days in a Reduced Volume of Plasma Maintain Hemostatic Function and Viability", The Canadian Red Cross Society and the Departments of Pathology, Medicine and Clinical Epidemiology and Biostatistics, McMaster University Faculty of Health Science, Hamilton, Ontario Canada, Volume 34, No. 1, 1994
		ALLAIN, J.P. et al., "Platelets Fixed with Paraformaldehyde: A New Reagent for Assay of Von Willebrand Factor and Platelet Aggregating Factor", Department of Pathology, University of North Carolina, J. Lab. Clin. Med., Volume 85, No. 2, pages 318-328, February 1975
		ARGALL, Mary E. and SMITH, Geoffrey D., "The Use of Trehalose-Stabilized Lyophilized Methanol Dehydrogenase from Hyphomicrobium X for the Detection of Methanol", Division of Biochemistry and Molecular Biology, School of Life Sciences, Faculty of Science, The Australian National University, Canberra, Australia, Volume 30, No. 3, July 1993
		BANDO, Toru, et al., "Effects of Newly Developed Solutions Containing Trehalose on Twenty-hour Canine Lung Preservation", Department of Thoracic Surgery, Chest Disease Research Institute, Kyoto University, Kyoto, Japan, Volume 108, Number 1, pages 92-98, July 1994
		BANDO, T. et al., "Twenty-Hour Canine Lung Preservation Using Newly Developed Solutions Containing Trehalose", Transplantation Proceedings, Volume 26, No. 2, pages 871-872, April 1994
		BLAJCHMAN, Morris A. et al., "The Contribution of the Haematocrit to Thrombocytopenic Bleeding in Experimental Animals", Departments of Pathology and Medicine, McMaster university and the Canadian Red Cross Society, Ontario, Canada, British Journal of Haematology 86, pages 347-350, 1994
		BLAKELEY, Diane et al., "Dry Instant Blood Typing Plate for Bedside Use", The Lancet 336, pages 854-55, 1990
		BOCK, M. et al., "Cryopreservation of Human Platelets with Dimethyl Sulfoxide: Changes in Biochemistry and Cell Function", Department of Transfusion Medicine, University of Magdeburg, Magdeburg, Germany and the Transfusion Center, Klinikum Grosshadern, University of Munich, Transfusion 35, pages 921-924, 1995
Examiner		Date Considered

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	FILING DATE: April 5, 2001	Page 3 of 6

OTHER ART

Examiner's Initials	Cite No.	Include Author, Title, Date, Pertinent Pages, Etc.
		BODE, Arthur P. et al., "Sustained Elevation of Intracellular Cyclic 3'-5' Adenosine Monophosphate is Necessary for Preservation of Platelet Integrity During Long-Term Storage at 22°C", Departments of Pathology and Laboratory Medicine and Surgery, East Carolina University School of Medicine, Volume 83, No. 5, pages 1235-1243, March 1994
		BODE, Arthur P. and MILLER, David T. "The Use of Thrombin Inhibitors and Aprotinin in the Preservation of Platelets Stored for Transfusion", Department of Clinical Pathology and Diagnostic Medicine, East Carolina University School of Medicine, pages 753-758, June 1989
		COLACO, Camilo et al., "Extraordinary Stability of Enzymes Dried in Trehalose: Simplified Molecular Biology", Quadrance Research Foundation, Biotechnology Volume 10, pages 1007-1011, September 1992
		COLACO, C. et al., "Trehalose Stabilisation of Biological Molecules", Quadrant Research Foundation, Biotechnology International, pages 345-350,
		CARPENTER, John F. et al., "Cryoprotection of Phosphofructokinase with Organic Solutes: Characterization of Enhanced Protection in the Presence of Divalent Cations", Department of Zoology, University of California, Davis, Archives of Biochemistry and Biophysics, Volume 250, No. 2, pages 505-512, November, 1986
		CHAO, F.C., et al., "Infusible Platelet Membrane Microvesicles: A Potential Transfusion Substitute for Platelets", Transfusion, Volume 36 No. 6, pages 536-542, 1996
		COLVIN, B.T., et al., "Effect of Dry Heating of Coagulation Factor Concentrates at 80°C for 72 Hours on Transmission of Non-A, Non-B Hepatitis" The Lancet, pages 814-816, October, 1988
		CROOK, M. and CRAWFORD, N., "Platelet Surface Charge Heterogeneity: Characterization of Human Platelet Subpopulations Separated by High Voltage Continuous Flow Electrophoresis", British Journal of Haematology 69, pages 265-273, 1988
		CROWE, John H. et al., "Are Freezing and Dehydration Similar Stress Vectors? A Comparison of Modes of Interaction of Stabilizing Solutes with Biomolecules", Symposium on Cryosensitizing and Cryoprotective Agents at the 26 th Annual Meeting of the Society for Cryobiology, 27, pages 219-231, 1990
		CROWE, John H. et al., "Cryoprotection of Phosphofructokinase with Organic Solutes: Characterization of Enhanced Protection in the Presence of Divalent Cations", Department of Zoology, University of California, Davis, Archives of Biochemistry and Biophysics, Volume 250, No. 2, pages 505-512, November 1986
		CROWE, John W. et al., "Is Vitrification Involved in Depression of the Phase Transition Temperature in Dry Phospholipids?", Biochimica et Biophysica Acta (BBA) 1280, pages 187-196, 1996
		CROWE, John H. and CROWE, Lois M., "Preservation of Liposomes by Freeze-Drying" Liposome Technology, Volume 1, Chapter 14, pages 229-252, 1993
		CROWE, John H. et al., "Preservation of Membranes in Anhydrobiotic Organisms: The Role of Trehalose", American Association for the Advancement of Science, Volume 223, pages 701-703, February, 1984
		CROWE, John H. et al., "Preservation of Structural and Functional Activity in Lyophilized Sarcoplasmic Reticulum", Archives of Biochemistry and Biophysics, Volume 220, No. 2, pages 477-484, February 1983
Examiner		Date Considered

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	FILING DATE: April 5, 2001	Page 4 of 6

OTHER ART

Examiner's Initials	Cite No.	Include Author, Title, Date, Pertinent Pages, Etc.
		CROWE, Lois M. et al., "Effects of Carbohydrates on Membrane Stability at Low Water Activities", Department of Zoology, University of California, Davis, Biochimica et Biophysica Acta, 769, pages 141-150, 1984
		CROWE, Lois M. et al., "Preservation of Freeze-Dried Liposomes by Trehalose", Department of Zoology, University of California, Davis, Archives of Biochemistry and Biophysics, Volume 242, No. 1, pages 240-247, October, 1985
		DALE, George L. et al., "High-Efficiency Entrapment of Enzymes in Resealed Red Cell Ghosts by Dialysis", Academic Press, Inc., Methods in Enzymology, Volume 149, pages 229-234, 1987
		ELEUTHERIO, Elis C.A., "Role of the Trehalose Carrier in Dehydration Resistance of Saccharomyces Cerevisiae", Biochimica et Biophysica Acta, 1156, pages 263-266, 1993
		FOOTE, R.H. et al., "Fertility of Bull Spermatozoa Frozen in Whole Milk Extender with Trehalose, Taurine, or Blood Serum", Department of Animal Science Cornell University and Eastern Artificial Insemination Cooperative, Inc., Ithaca, New York, Journal of Dairy Science, Volume 76, No. 7, 1993
		GERENCSE, George A., "Cryoprotection of Aplysia Gut Basolateral Membranes by Trehalose", Department of Physiology, College of Medicine, University of Florida, Comp. Biochem. Physiol. Volume 108A, No. 1, pages 53-57, 1994
		GOODRICH, Raymond P. et al., "Preservation of Metabolic Activity in Lyophilized Human Erythrocytes", Proc. Natl. Acad. Sci. Volume 89, pages 967-971, February, 1992
		HIRATA, T. et al., "Effects of Trehalose in Canine Lung Preservation", Department of Thoracic Surgery, Chest Disease Research Institute, Kyoto University, Kyoto, Japan, Volume 115, Number 1, pages 102-107, January 1994
		HIRATA, T. et al., "Effects of Trehalose in Preservation of Canine Lung for Transplants", Department of Thoracic Surgery, Chest Disease Research Institute, Kyoto University, Kyoto, Japan, Thorac. Cardiovasc. Surgeon 41, pages 59-63, 1993
		HIRATA, T. et al., "Successful 12-Hour Lung Preservation with Trehalose", Transplantation Proceedings, Volume 25, No. 1, pages 1597-1598, February 1993
		HOLME, S. et al., "Evaluation of Platelet Concentrates Stored for 5 days with Reduced Plasma Volume", American Red Cross, Mid-Atlantic Region and Eastern Virginia Medical School, Transfusion, Volume 34, No. 1, pages 39-43, 1994
		HOLME, S. et al., "Improved Maintenance of Platelet in vivo Viability During Storage When Using a Synthetic Medium with Inhibitors", American Red Cross, East Carolina University School of Medicine, Volume 119, No. 2, pages 144-150, February 1992
		HOTTIGER, Thomas et al., "The Role of Trehalose Synthesis for the Acquisition of Thermotolerance in Yeast II. Physiological Concentrations of Trehalose Increase the Thermal Stability of Protein In Vitro", Eur. J. Biochem. 219, pages 187-193, 1994
		HUGHES, K. and CRAWFORD, N., "Reversible Electroporation of Human and Rat Blood Platelets: Evaluation of Morphological and Functional Integrity 'In Vitro' and 'In Vivo'", Department of Biochemistry and Cell Biology, Hunterian Institute, Royal College of Surgeons of England, Biochimica et Biophysica Acta, 981, pages 277-287, 1989
Examiner		Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s).

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OTHER ART

Examiner's Initials	Cite No.	Include Author, Title, Date, Pertinent Pages, Etc.
		IHLER, Garret M. and TSANG, Hannah Chi-Wan, "Hypotonic Hemolysis Methods for Entrapment of Agents in Resealed Erythrocytes", Methods of Enzymology, Volume 149, pages 221-229, 1987
		JINDAL, Rahul and GRAY, Derek, "Preservation and Storage of Pancreatic Islets", Division of Transplantation, Mt. Sinai School of Medicine, New York and University of Oxford, United Kingdom, Vol. 57, pages 317-321, No. 3, February 1994
		LESLIE, Samuel B. et al., "Trehalose and Sucrose Protect Both Membranes and proteins in Intact Bacteria during Drying", Section of Molecular and Cellular Biology, University of California, Davis, Applied and Environmental Microbiology, pages 3592-3597, October, 1995
		LIONETTI, F.J. et al., "Improved Method for the Cryopreservation of Human Red Cells in Liquid Nitrogen with Hydroxythyl Starch", Center for Blood Research and Tufts University School of Medicine, Boston, MA, Cryobiology 13, pages 489-499, 1976
		MAGNANI, Mauro et al., "Targeting Antiretroviral Nucleoside Analogues in Phosphorylated Form to Macrophages: In Vitro and In Vivo Studies", Proc. Natl. Acad. Sci., Volume 89, pages 6477-6481, July 1992
		MOROFF, G. et al., "Effect on Platelet Properties of Exposure to Temperatures Below 20°C for Short Periods During Storage at 20 to 24°C", American Red Cross, Jerome H. Holland Laboratory for the Biomedical Sciences, and Red Cross Blood Services, Transfusion, Volume 34, No. 4, pages 317-321, 1994
		OKADA, Craig Y. and RECHSTEINER, Martin, "Introduction of Macromolecules into Cultured Mammalian Cells by Osmotic Lysis of Pinocytic Vesicles", Department of Biology, University of Utah, Volume 29, pages 33-41, May 1982
		PUISIEUX, Francis et al., "Liposomes, New Systems and New Trends in their Applications", Published in France by Editions de Sante, Chapter 8, pages 239-272, 1995
		READ, Marjorie S. et al., "Preservation of Hemostatic and Structural Properties of Rehydrated Lyophilized Platelets: Potential for Long-Term Storage of Dried Platelets for Transfusion", Proc. Natl. Acad. Sci, Volume 92, pages 397-401, January 1995
		RECHSTEINER, Martin, "Osmotic Lysis of Pinosomes", Methods in Enzymology, Volume 149, pages 42-48, 1987
		ROSER, Bruce and COLACO, Camilo, "A Sweeter Way to Fresher Food", New Scientist, May 1993
		ROSER, Bruce, "Trehalose, a New Approach to Premium Dried Foods", Trends in Food Science & Technology, July 1991
		RUDOLPH, Alan S. and CROWE, John H., "A Calorimetric and Infrared Spectroscopic Study of the Stabilizing Solute Proline", Biophysical Society, Volume 50, pages 423-430, September 1986
		SHIER, W. Thomas, "Studies on the Mechanisms of Mammalian Cell Killing by a Freeze-Thaw Cycle: Conditions that Prevent Cell Killing Using Nucleated Freezing", Department of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, University of Minnesota, Cryobiology 25, pages 110-120 (1988)
Examiner		Date Considered

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	FILING DATE: April 5, 2001	Page 6 of 6

OTHER ART

Examiner's Initials	Cite No.	Include Author, Title, Date, Pertinent Pages, Etc.
		TABLIN, Fern et al., "Membrane Phase Transition of Intact Human Platelets: Correlation with Cold-Induced Activation", Departments of Anatomy, Physiology, and Cell Biology and Molecular and Cellular Biology, University of California, Davis, Journal of Cellular Physiology 168, pages 305-313, 1996
		TERASAKI, Mark et al., "Localization of endoplasmic Reticulum in Living and Glutaraldehyde-Fixed Cells with Fluorescent Dyes", Dana-Farber Cancer Institute and Department of Pathology Harvard Medical School, Cell, Volume 38, pages 101-108, August 1984
		YOKOMISE, H. et al., "Reliable Cryopreservation of Trachea for One Month in a New Trehalose Solution", Division of Thoracic Surgery, Chest Disease Research Institute, Kyoto University, Kyoto, Japan, Volume 110, Number 2, pages 382-385, 1995
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